

CLAIM AMENDMENTS:

1- 21 cancelled

22. (new) A slide bearing composite material comprising:

a metallic support layer;
a porous carrier layer sintered or sprayed on said support layer and having a thickness of between 100 and 500 μm or between 200 and 330 μm , said porous carrier layer being formed from spattered metallic particles having a continuously irregular, non-circular geometry, said carrier layer having a pore volume of at least 40 - 48 vol. % prior to bending or rolling into a shell or bushing shape; and
a sliding layer made from sliding layer material having a polymer basis to form a sliding surface for a sliding partner, said sliding layer material filling pores of said carrier layer and having fillers to improve tribological properties thereof, wherein said sliding layer material projects past said porous carrier layer by 5-100 μm , is lead-free, and comprises at least 50 volume % PVDF or at least 60 volume % PA, PES, or PPS.

23. (new) The slide bearing composite material of claim 22, wherein a grain size distribution of said metallic particles has a characteristic grain size of 75 to 110 μm .

24. (new) The slide bearing composite material of claim 22, wherein a grain size distribution of said metallic particles is characterized by a shape parameter β of 2.5 to 5.

25. (new) The slide bearing composite material of claim 22, wherein a wall thickness increase of said sliding layer during bending thereof into a shell or bushing shape satisfies a relationship:

$$a = b \cdot e^{\frac{cS_3}{d_2}}$$

with $0.0035 < b < 0.0045$ and $9.2 < c < 9.7$ or with $0.0038 < b < 0.0042$ and $9.4 < c < 9.5$, wherein S_3 is said wall thickness of a slide bearing composite material and d_2 is an outer diameter of the bushing or shell shape.

26. (new) The slide layer composite material of claim 22, wherein said porous carrier layer has a pore volume of at least 41 %, of at least 42 %, of at least 43 %, of at least 44 %, or of at least 45 %.
27. (new) The slide bearing composite material of claim 26, wherein said porous carrier layer has a pore volume of 43 to 48 %.
28. (new) The slide bearing composite material of claim 22, wherein said sliding layer material contains no lead.
29. (new) The slide bearing composite material of claim 22, wherein said sliding layer material comprises at least 50 vol. % of PVDF.
30. (new) The slide bearing composite material of claim 29, wherein said sliding layer material comprises at least 60 vol. % of PVDF.
31. (new) The slide bearing composite material of claim 22, wherein said sliding layer material comprises at least 60 vol. % of PA.
32. (new) The slide bearing composite material of claim 22, wherein said sliding layer material comprises at least 60 vol. % of PES.

33. (new) The slide bearing composite material of claim 22, wherein said sliding layer material comprises at least 60 vol. % of PPS.
34. (new) The slide bearing composite material of claim 22, wherein said sliding layer material comprises at least 5 vol. %, at least 8 vol. %, or at least 10 vol. % of PTFE.
35. (new) The slide bearing composite material of claim 34, wherein said sliding layer material is based on PTFE, comprises at least 60 vol. % of PTFE, or comprises at least 70 vol. % of PTFE.
36. (new) The slide bearing composite material of claim 22, wherein said sliding layer material comprises at least 5 vol. %, at least 8 vol. %, or 8 to 12 vol. % of zinc sulphide and/or barium sulphate.
37. (new) The slide bearing composite material of claim 22, wherein said sliding layer material comprises at least 5 vol. %, at least 8 vol. %, or 8 to 12 vol. % of graphite.
38. (new) The slide bearing composite material of claim 22, wherein said sliding layer material comprises at least 2 vol. % or 2 to 6 vol. % of carbon fibers.
39. (new) The slide bearing composite material of claim 22, wherein said porous carrier layer is formed from tin bronze particles or of CuSn (8-12) particles.
40. (new) The slide bearing composite material of claim 22, wherein said support layer is made from steel or bronze.

41. (new) A slide bearing bushing, produced from the slide bearing composite material of claim 22.
42. (new) The slide bearing bushing of claim 41, having an outer diameter of 10 to 15 mm or of 10 to 13 mm, wherein said sliding layer projects past said porous carrier layer by 10 to 30 μm , by 10 to 25 μm , or by 12 to 20 μm , wherein said sliding layer material completely covers said porous carrier layer.